

Design Assumptions for  
Nebraska Base Drawing NE100-40-003  
Concrete Pipe Support for Metal Pipe

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Revised: 07/01 Replaces: 5001-16

**Concrete Pipe Support for Metal Pipe**

Standard length is 8ft., if a longer pipe support is required, contact the State Office Engineering Design Staff.

Instructions for  
Nebraska Base Drawing NE100-40-003  
Concrete Pipe Support for Metal Pipe

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Fill in the following data fields to automatically fill in the necessary data fields on the drawing.

**Title block**

Title line(s)

Subtitle line

County, State

Sheet number                      of

**Who / When**

Designed

Drawn

Checked

**Enter for Requirement Table on drawing**

Pipe Diameter =

Concrete Class =

Concrete Volume (CU.YDS.) =

Reinforcing Steel (lbs.) =

**Click Grade Box for Grade and L Dimensions Table on drawing**

Grade (%)	1	2	3	4	5	6	7
L (inches)	1/16	1/8	3/16	1/4	5/16	3/8	7/16



Figure 10.10 shows the reinforcement details for a rectangular column. The diagram includes the following dimensions and specifications:

- Overall height:  $T$
- Clear height:  $6'-0"$
- Top extension:  $P+F$
- Top extension:  $3x$
- Bottom extension:  $2x$
- Bottom extension:  $3x$
- Reinforcement:  $6 \#5 @ 12$  (vertical bars)
- Reinforcement:  $6 \#5 @ 12$  (horizontal bars)
- Reinforcement:  $6 \#5 @ 12$  (horizontal bars)
- Reinforcement:  $6 \#5 @ 12$  (horizontal bars)
- Reinforcement:  $X \ 2 \ @ \ Y$  (bottom reinforcement)
- Reinforcement: Steel in each face

\*\* Dimensions are from centerline of pipe support

[illegible]

See Elevation X-X and Table for L

Diagram illustrating the assembly of a concrete pipe support using a steel angle lug and a 3/4" dia. pipe sleeve. The assembly is shown in cross-section, with dimensions in inches.

- CL of pipe support**: Center line of the pipe support.
- 3/4" dia. pipe sleeve**: The sleeve through which the pipe passes.
- 3/4" dia. bolt**: The bolt securing the sleeve to the support.
- Drill or punch a 1" dia. hole**: The hole in the concrete support for the sleeve.
- C. M. pipe barrel**: The concrete pipe barrel.
- Steel angle lug**: The support structure for the sleeve.
- Concrete pipe support**: The base support for the pipe.

Dimensions (inches):

- Vertical distance from the top of the concrete support to the center line of the pipe support: 8
- Vertical distance from the center line of the pipe support to the top of the steel angle lug: 3
- Vertical distance from the top of the steel angle lug to the center line of the pipe support: 5
- Horizontal distance from the center line of the pipe support to the edge of the concrete support: 8

Figure 1 shows the dimensions of the test specimens. Type 2 is a U-shaped specimen with height A, width B, and a 2-inch long bottom flange. Type T1 is a square specimen with side length 8, with a 2-inch long bottom flange and a 2-inch wide top flange.

NO. 3 BAR = 3/8" DIA. 0.376 LB./FT.  
NO. 6 BAR = 3/4" DIA. 1.502 LB./FT.

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